

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/994,839 | 11/28/2001 | Jae Kyung Lee | P-0288 | 8445 |

34610 7590 08/13/2004

FLESHNER & KIM, LLP
P.O. BOX 221200
CHANTILLY, VA 20153

| |
|----------|
| EXAMINER |
|----------|

ZHOU, TING

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2173

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|-----------------|----------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 09/994,839 | LEE, JAE KYUNG | |
| | Examiner | Art Unit | |
| | Ting Zhou | 2173 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Objections

1. Claims 7 and 13 are objected to because of the following informalities: the use of "a predetermined portions" on lines 4 and 5 of claims 7 and 13, respectively, are grammatically incorrect. It is suggested that the phrase be changed to -- a predetermined portion --. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites the limitation "said usages of" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3-7, 9-13 and 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Bingham U.S. Patent 4,907,085.

Referring to claim 1, Bingham teaches a method comprising determining whether a manual selection key signal is input (user calling up the menu for display by entering an appropriate command) (column 3, lines 28-40), graphically displaying a video apparatus according to the manual selection key signal (graphically displaying television system terminal jacks along with the menu of possible connections) (column 1, lines 67-68 through column 2, lines 1-12) and displaying the manual of a predetermined portion of the video apparatus (displaying a pictorial representation of the connectors of the rear panel and a menu of possible interconnections for an audio/video system for users to assign functions and graphically display the labels associated with each assigned function) (column 2, lines 27-66). This is further shown in Figures 1a and 1b, where in response to user command, a graphical representation of the audio/video apparatus and the menu of possible connections to be made are displayed.

Referring to claim 7, Bingham teaches a method comprising determining whether a manual selection key signal is input (user calling up the menu for display by entering an appropriate command) (column 3, lines 28-40), and graphically displaying a predetermined portion of a video apparatus according to the manual selection key signal (graphically displaying television system terminal jacks along with the menu of possible connections) (column 1, lines 67-68 through column 2, lines 1-12), and graphically and sequentially displaying the manual of a method for connecting the video apparatus to various external apparatuses (the displayed menu shows the connector jacks sequentially from 1 to 5, along with possible connections to signals such as audio, video, etc.) (column 2, lines 27-66). This is further shown in Figures 1a and 1b,

where in response to user command, a graphical representation of the audio/video apparatus and the menu of possible connections to be made are displayed.

Referring to claim 13, Bingham teaches an apparatus comprising a manual data storage unit for storing manual data including the manual of a method for connecting the video apparatus to various external apparatuses and graphically displaying a predetermined portion of the video apparatus (the programmable switch stores the displayed menu indicating connections of jacks to other signals, such as audio, video, etc.) (column 3, lines 15-59), a microcomputer for receiving a manual selection key signal received by a user and outputting a control signal (a remote control hand unit receives an appropriate command from the user to call up the menu for display) (column 3, lines 28-40), and a manual display unit for graphically displaying the manual on the screen of the video apparatus according to the control signal (displaying a pictorial representation of the connectors of the rear panel and a menu of possible interconnections for an audio/video system for users to assign functions and graphically display the labels associated with each assigned function) (column 2, lines 27-66). This is further shown in Figures 1a and 1b, where in response to user command, a graphical representation of the audio/video apparatus and the menu of possible connections to be made are displayed.

Referring to claims 3, 9 and 15, Bingham teaches usages of the predetermined portions of the video apparatus sequentially and automatically proceed (upon user entering a command, the menu, showing the connectors sequentially from 1 to 5, of possible interconnections is automatically displayed) (column 3, lines 28-40 and Figure 1a).

Referring to claims 4, 10 and 16, Bingham teaches the predetermined portion of the video apparatus is an external apparatus connector including one or more input/output terminals of the

Art Unit: 2173

video apparatus (displaying coaxial connectors on the rear panel, which includes multifunction jacks that can be used as input/output terminals for audio, video, etc.) (column 2, lines 27-38).

Referring to claims 5, 11 and 17, Bingham teaches automatically switching the mode of the video apparatus to a mode of operating the external apparatus connected to the corresponding input/output terminal when an enter-key signal is input while the manuals of the input/output terminals of the external apparatus connector are displayed (when the user assigns a function to one of the jacks while the menu is displayed, then the controller automatically connects the jack to the wire for the assigned function; for example, if the user assigns the Right Audio Out function to jack 207, then the controller would connect jack 207 to wire 232 to couple the jack with the external function) (column 3, lines 40-59).

Referring to claims 6, 12 and 18, Bingham teaches the predetermined portion of the video apparatus is a manipulation portion of the video apparatus (the displayed connector jacks can be manipulated to have different functions associated with it) (column 2, lines 35-66).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 8 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bingham U.S. Patent 4,907,085, as applied to claims 1, 7 and 13 above, and further in view of Haffey et al. U.S. Patent 6,396,962.

Referring to claims 2, 8 and 14, Bingham teaches all of the limitations as applied to claims 1, 7 and 13 above. Specifically, Bingham teaches the predetermined portion of the video apparatus is marked and displayed (as shown in Figures 1a and 1b, the display graphically shows the menu for the connectors of the video apparatus marked with possible interconnections, along with a pictorial representation of the connectors) (Bingham: column 2, lines 27-38). However, Bingham fails to explicitly teach displaying an enlarged portion of the apparatus. Haffey et al. teach an interface for graphically displaying an image (displaying selected video objects) (Haffey et al.: column 1, lines 62-63 and column 2, lines 55-58) similar to that of Bingham. In addition, Haffey et al. further teach displaying an enlarged portion of the object (Haffey et al.: column 2, lines 1-5 and 56-65 and further shown in Figures 5A and 5B). It would have been obvious to one of ordinary skill in the art, having the teachings of Bingham and Haffey et al. before him at the time the invention was made, to modify the manual display method of Bingham to include the display of an enlarged object taught by Haffey et al. One would have been motivated to make such a combination in order to enable a smooth transition from one size to another, allowing users to view images more clearly and accurately at a larger size.

5. The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider

these references fully when responding to this action. The documents cited therein teach similar methods for graphically displaying an apparatus in response to user selection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ting Zhou whose telephone number is (703) 305-0328. The examiner can normally be reached on Monday - Friday 8:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (703) 308-3116. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

27 July 2004



CAO (KEVIN) NGUYEN
PRIMARY EXAMINER